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APPLICATION NO.	ATION NO. FILING DATE FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/006,440	11/20/2001	Daryl J. Hlasny	SLA1020	8363	
7590 02/09/2005		EXAMINER			
Wesley L. Austin			LIM, KRISNA		
MADSON & N	<b>METCALF</b>				
15 West South Temple, Suite 900			ART UNIT	PAPER NUMBER	
Salt Lake City, UT 84101			2153		
·			DATE MAIL ED: 02/00/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)				
Office Action Summary		10/006,4	40	HLASNY, DARYL J.				
		Examine		Art Unit				
		Krisna Li		2153				
Period fo	The MAILING DATE of this communication Reply	on appears on the	cover sheet with the c	correspondence ac	idress			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT nsions of time may be available under the provisions of 37 G SIX (6) MONTHS from the mailing date of this communicati e period for reply specified above is less than thirty (30) days period for reply is specified above, the maximum statutory re to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no eviction. s, a reply within the state period will apply and we statute, cause the appropriate the app	ent, however, may a reply be tin utory minimum of thirty (30) day ill expire SIX (6) MONTHS from lication to become ABANDONE	nely filed  rs will be considered time the mailing date of this of D (35 U.S.C. § 133).	ly. xommunication.			
Status								
1)	Responsive to communication(s) filed on	·						
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)	This action is r	on-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims							
5)□ 6)⊠ 7)□	<ul> <li>□ Claim(s) 1-60 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>□ Claim(s) is/are allowed.</li> <li>□ Claim(s) 1-14,16-34,36-54 and 56-60 is/are rejected.</li> <li>□ Claim(s) is/are objected to.</li> <li>□ Claim(s) are subject to restriction and/or election requirement.</li> </ul>							
Applicati	on Papers							
9)[	The specification is objected to by the Exa	aminer.						
10)	) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	under 35 U.S.C. § 119							
a)(	Acknowledgment is made of a claim for for All b) Some * c) None of:  1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International Beet the attached detailed Office action for	ments have bee ments have bee priority documo Bureau (PCT Rul	n received. In received in Applicati ents have been receive e 17.2(a)).	on No ed in this National	Stage			
Attachmen	• • • • • • • • • • • • • • • • • • • •							
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94		4) Interview Summary Paper No(s)/Mail Da					
3) 🛛 Infor	e of Draftsperson's Patent Drawing Review (P10-94 mation Disclosure Statement(s) (PTO-1449 or PTO/\$ r No(s)/Mail Date		5) Notice of Informal P 6) Other:		O-152)			

Application/Control Number: 10/006,440 Page 2

Art Unit: 2153

1. Claims 1-60 are presented for examination.

- 2. The title of the invention is neither descriptive nor precise. A new title is required which should include, using twenty words or fewer, claimed features that differentiate the invention from the Prior Art. The title should reflect the gist of or the improvement of the present invention.
- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-14, 16-34, 36-54 and 56-60 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Meggers et al. [U.S. Patent No. 6,728,270] in view of Official Notice.
- 5. Meggers et al. disclose (e.g., see Figs. 1-5) the invention substantially as claimed. Taking claims 1 and 15-20 as exemplary claims, the reference disclosed an electronic device (scheduling and admission control of real-time data packet traffic) adapted to communicate among first and second devices network, the device comprising: a processor (scheduling and admission controller of flow chart of Fig. 3); a communication module (a communication system, col. 1, line 8); memory in electronic communication with the processor for storing data (software program, see the abstract); a packet scheduler for providing time points defining a schedule for the electronic device to communicate with the other devices (e.g., see col. 6 (lines 33-34), col. 8 (lines 37-38)); a modified scheduler to modify the schedule (sorted packet into queue set time-stamp, see the abstract, 240 of Fig. 5, modified admission control packet, col. 5 (lines 43-44)); and an event queue (e.g., see EDF queue and FIFO queue of Figs. 4 and 5).

Application/Control Number: 10/006,440 Page 3

Art Unit: 2153

6. While Megger et al. disclose the packet scheduler for scheduling and admission control data packet traffic in real time and a modified scheduler for modifying admission control packet by use of two queues for scheduling data packet, Megger et al. do not explicitly mention two types of schedulers (e.g., a pseudo-random scheduler and a dynamic scheduler). It would have been obvious to one of ordinary skill in the art to recognize that the teaching of two schedulers (the packet scheduler and modified scheduler) of Megger et al. would have been obviously the two schedulers of the claimed invention while the specific term of pseudo-random and dynamic would have been a matter of calling.

- 7. As to claims 2 and 5, Megger et al. disclose the implementation of a fair allocation of the bandwidth (e.g., see col. 1, lines 40-41, col. 2, lines 12-13).
- 8. As to claims 3-4, Megger et al. disclose the extending or reducing previous communication period (the bandwidth can vary in between a certain period during the congestion traffic, see col. 2, lines 17-19).
- 9. As to claims 6 and 14, Megger et al. disclose the feature of evaluating traffic pending and device availability and modifying the schedule based on the evaluation (e.g., see col. 2, lines 44-59).
- 10. As to claims 7-8, Megger et al. disclose the implementation of predetermined synchronized and asynchronized method for generating time points (e.g., see col. 6, lines 39-41, col. 8, lines 25-62, and col. 9, line 57).
- 11. As to claim 9, Megger et al. disclose the feature of a real-time method for generating time points (e.g., see col. 6, line 43, col. 8 (line 67) to col. 9 (line 1), col. 15, line 48).

Application/Control Number: 10/006,440 Page 4

Art Unit: 2153

12. As to claim 10, Megger et al. disclose the event queue comprises a plurality of time points, channel ID and data pending indicators (e.g., see number of N of packet, over all size, maximum transmission time, etc. see col. 8, lines 13-18).

- 13. As to claims 11 and 14, Examiner takes the Official Notice that the use of state machine or finite state machine in a computer or an electronic design would have been a matter of design choice because the state machine is known as a function which maps sequences of input events into output events.
- 14. As to claims 12-13, as to the feature of piconet, it would have been obvious to one of ordinary skill in the art to recognize that such piconet would have been a matter of choice because this is nothing more than just a type of network.
- 15. Claims 15, 35 and 55 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 16. Claims 21-34, 36-54 and 56-60 are similar in scope as of claims 1-14 and 16-20 and therefore claims 21-34, 36-54 and 56-60 are rejected for the same reasons set forth above for claims 1-14 and 16-20
- 17. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The references are cited in the Form PTO-892 for the applicant's review.

A shortened statutory period for response to this action is set to expire 3 (three) months and 0 (zero) days from the mail date of this letter. Failure to respond within the period for response will result in **ABANDONMENT** of the application (see 35 U.S.C 133, M.P.E.P 710.02, 710.02(b)).

Application/Control Number: 10/006,440

Art Unit: 2153

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Krisna Lim whose telephone number is 571-272-3956. The examiner can normally be reached on Monday to Wednesday and Friday from 7:30 AM to 4:00 PM.

Page 5

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glenton Burgess, can be reached on 571-272-3949. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KI

February 5, 2005

KRISNA LIM PRIMARY EXAMINER